



# A LIST OF THE TYPE-SPECIMENS OF EPHEMEROPTERA IN THE BRITISH MUSEUM (NATURAL HISTORY)

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## SYNOPSIS

Three hundred and five taxa are listed. Thirteen lectotypes are designated and the status of the other type-specimens is given.

The present paper follows the general pattern of my previous lists of type-specimens in the British Museum (Natural History) but fewer lectotypes are designated in it. In 1960, I published a list of the Ephemeroptera types of species described by the three major British workers on the order, namely Eaton, McLachlan and Walker, in which lectotypes were designated where necessary. This list included species whose types were in museums other than in the BMNH. In the present list, in the references to taxa dealt with in Kimmins (1960), the status of the type-specimen is given in square brackets. In that paper, 72 lectotypes were designated from BMNH material, bringing the total designated up to 109 and thirteen more are designated in the present work.

Three hundred and five taxa are dealt with in the present list, and of these, the type-specimens of 14 taxa (mostly described by Stephens) are either lost, or are unlabelled and not recognizable from Stephens' descriptions. Some were already lost or unrecognizable when Eaton was preparing his 1871 monograph.

Additional information as to the locality data of the types, either not given or abbreviated in the original description, has been included here in square brackets. LECTOTYPE indicates present designation.

This list was completed in March, 1970.

**aapta** Harker (*Mirawara*), 1954 : 261-263, text-figs 69-71. Holotype ♂. N[ew] S[outh] W[ales], Upper Murrumbidgee R., Adaminaby, 11.xii.1936 (*R. J. Tillyard*) / Abdomen in slide cabinet / Genitalia, slide XIII / *Mirawara aapta* [J.E.H.).

**abyssinicus** Ulmer (*Tricorythus*), 1930 : 502-505, text-figs 23, 24. LECTOTYPE ♂. Abyssinia, Akaki Ravine, 6500-7000 ft, 17.x.1926, to candle light in tent (*H. Scott*) / *Tricorythus abyssinicus* Ulm[er], Typen!

Currently placed in the genus *Neurocaenis*.

**aequatorialis** Kimmins (*Ephemera*), 1956 : 86-87, text-figs 26-31. Holotype ♂ (in 2% formaldehyde solution). Uganda, Jinja, At light, xii.1954 (*P. S. Corbet*). *Ephemera aequatorialis* Kim., ♂ Type.

Currently placed in the genus *Afromera*. The ♂ & ♀ types are now somewhat reddish, having absorbed some of the red dye from the margin of the type-label.

**aestivalis** Eaton (*Siphylurus*). Kimmins, 1960 : 272, text-fig. 3 [♂ Lectotype].

**affinis** Eaton (*Ecdyurus*). Kimmins, 1960 : 282, text-fig. 17 [♂ Lectotype].

**africanum** Gillies (*Prosopistoma*), 1954 : 359-362, text-figs 1-3, 5-16, 18, 20, 22. Holotype nymph (in 2% formaldehyde solution). [East Africa], T[anganyika] T[erritory], E. Usambaras, 1500 ft, [Amani], Sigi River, 14.ix.[19]52 [*M. T. Gillies*], *Prosopistoma africanum* [M. T. Gillies det.]

- albifilum* Walker (*Palingenia*). Kimmins, 1960 : 312, text-fig. 61 [♂ Holotype].
- albivitta* Walker (*Baetis*). Kimmins, 1960 : 309 [♂ Lectotype].
- algiricum* Eaton (*Centroptilum*). Kimmins, 1960 : 290 [♂ Lectotype].
- alpestris* Eaton (*Rhithrogena*). Kimmins, 1960 : 283, text-fig. 20 [♂ Lectotype, fig. incorrectly given as 25].
- alpicola* Eaton (*Heptagenia*). Kimmins, 1960 : 280, text-fig. 13 [♂ Holotype].
- amabilis* Eaton (*Rhoenanthus*). Kimmins, 1960 : 306, text-fig. 51 [♂ Lectotype].
- amenia* Harker (*Kirrara*), 1954 : 260, text-figs 42, 60, 61. Holotype ♂. [New South Wales], Mt Kosciusko, Spencers Creek, 6000 ft, 20.xii.1932 (*R. J. Tillyard*) / *Kirrara amenia*.
- amnicus* Eaton (*Baetis*). Kimmins, 1960 : 286, text-fig. 23 [♂ Lectotype].
- ampla* Eaton (*Palingenia (Anagenesia)*). Kimmins, 1960 : 314, text-fig. 63 [♂ Lectotype].
- anceps* Eaton (*Euthyplocia*). Kimmins, 1960 : 307, text-fig. 52 [♂ Holotype].
- anceps* Eaton (*Metamonius*). Kimmins, 1960 : 270, text-fig. 1 [♂ Lectotype].
- angulata* Walker (*Baetis*). Kimmins, 1960 : 309 [♂ Lectotype].
- annulata* Walker (*Baetis*). Kimmins, 1960 : 272 [♂ Holotype].
- annulifera* Walker (*Palingenia*). Kimmins, 1960 : 279 [♂ Holotype].
- [*apicalis* Stephens (*Ephemera*), 1836 : 59. According to Eaton, 1871 : 9, the Stephens Collection then contained 2 ♂ *Ephemerebella ignita* (Poda) and 1 ♂ *Baetis phaeops* Eaton over the label 'apicalis'; on page 26 of the same work, Eaton placed *Ephemera apicalis* Stephens in the synonymy of *Ephemerebella ignita* (Poda) but does not refer to *apicalis* Stephens in the synonymy of his *Baetis phaeops*. It is not possible to recognize which examples of *Ephemerebella ignita* were the types of Stephens' *apicalis*. The example labelled *apicalis* in the Stephens Collection is a ♂ *Baetis*, lacking anal appendages. I know of no recent usage of the name *Ephemera apicalis* Stephens and it seems desirable to treat it as a *nomen oblitum*.]
- armatus* Eaton (*Siphonurus*). Kimmins, 1960 : 272 [♂ Lectotype].
- assamensis* Kimmins (*Cinygmina*), 1937 : 435-436, text-fig. 3. Holotype ♂. Assam, Khasia Hills, Eaton Bequest / *Cinygmina assamensis* Kimmins, ♂ Type, det. D. E. Kimmins. The ♂ type now lacks its setae.
- assimilis* Eaton (*Epeorus*). Kimmins, 1960 : 280, text-fig. 14 [♂ Lectotype].
- atrebatinus* Eaton (*Baetis*). Kimmins, 1960 : 286 [♂ Lectotype].
- auriculata* Eaton (*Leptophlebia*). Kimmins, 1960 : 294, text-fig. 36 [♂ Lectotype].
- australis* Walker (*Ephemera*). Kimmins, 1960 : 294 [♂ Lectotype].
- austriacus* Kimmins (*Ecdyonurus*), 1958 : 226-230, text-figs 1-8. Holotype ♂ (in 2% formaldehyde solution). Austria, Brodingbach, 700 m, 25.viii.1955 / *Ecdyonurus austriacus* Kim., ♂ Type, D. E. Kimmins det. 1956.
- basalis* Walker (*Baetis*). Kimmins, 1960 : 286 [♂ Holotype].
- bellus* Eaton (*Thraulus*). Kimmins, 1960 : 303, text-fig. 49. [Lectotype].
- bengalense* Kimmins (*Cloeon*), 1947 : 95-96, text-figs 3, 7, 11. Holotype ♀ (in 2% formaldehyde solution). [Bengal], Calcutta distr., x.1945 (*D. E. Kimmins*), *Cloeon bengalense* Kim., Type ♀.
- bengtssoni* Müller-Liebenau (*Baetis*), 1966 : 65-79, 8 text-figs. Holotype ♂ (in 2% formaldehyde solution). *Baetis bengtssoni* ♂, Hangelsbach (Eifel), 7 Juli 1965, Müller-Liebenau leg. et det.
- berneri* Kimmins (*Caenis*), 1955 : 879-880, text-fig. 13. Holotype ♂ (in 2% formaldehyde solution). Nyasaland, L. Nyasa, Chipoka, 6.viii.1952 (*Lewis Berner*) / *Caenis berneri* Kim., ♂ Holotype, D. E. Kimmins det. 1953.

- bicolor** Kimmins (*Cloeon*), 1947 : 97-98, text-figs 4, 8, 12. Holotype ♀ (in 2% formaldehyde solution). [Bengal], Calcutta distr., xi.1945 (D. E. Kimmins), *Cloeon bicolor* Kim., Type ♀.
- bicolor** Walker (*Palingenia*). Kimmins, 1960 : 274 [♀ Holotype].
- bimaculatum** Eaton (*Cloeon*). Kimmins, 1960 : 292, text-fig. 35 [♀ Lectotype].
- binotatus** Eaton (*Siphylurus*). Kimmins, 1960 : 272, text-fig. 4 [♂ Lectotype].
- bocagii** Eaton (*Baetis*). Kimmins, 1960 : 286-288, text-fig. 24 [♂ Holotype].
- brevipes** Kimmins (*Caenis*), 1956 : 84-86, text-figs 24, 25. Holotype ♂ (mounted with allotype ♀ on microscope slide, in euparal). Uganda, Jinja, At light, xii.1954 (P. S. Corbet) / *Caenis brevipes* Kim., ♂ Type, ♀ allotype.
- brevissimus** Eaton (*Leptohyphes*). Kimmins, 1934 : 347, fig. 12 [as 'type'].
- brunnea** Tillyard (*Atalophlebia*), 1936 : 43-44, text-figs 8, 14, 21. Holotype ♂ (in 2% formaldehyde solution). [Northern] Tas[mania], [South Esk River], Clarendon (Eric Scott), *Atalophlebia brunnea* Till.
- buceratus** Eaton (*Baetis*). Kimmins, 1960 : 288 [♂ Lectotype].
- bugandensis** Kimmins (*Euthraulius*), 1956 : 79-80, text-figs 12, 13, 15. Holotype ♂ (in 2% formaldehyde solution). Uganda, Entebbe, 3.iii.1954 (R. Hartland-Rowe) / *Euthraulius bugandensis* Kim., ♂ Type, D. E. Kimmins det. 1954.
- bundutum** Harker (*Deleatidium*), 1954 : 256-257, text-figs 39, 49, 50, 53-57. Holotype ♂ (in 2% formaldehyde solution, genitalia mounted as microscope preparation). N[ew] S[outh] W[ales], Armidale, [Dumaresque Cr.], 3000 ft, 6.vii.1948 (J. E. Harker), *Deleatidium bundutum* Hark. Type.
- campestre** Gillies (*Centroptilum*), 1949 : 172, text-fig. 19. Holotype ♂ (in 2% formaldehyde solution). India, C[entral] P[rovinces], River Sonar, near Saugor, 11.iii[19]45 [M. T. Gillies], *Centroptilum campestre* sp. n. ♂, holotype [M. T. Gillies det.].
- canadense** Walker (*Baetis*). Kimmins, 1960 : 284 [♂ Lectotype].
- candida** Eaton (*Elassoneuria*). Kimmins, 1960 : 274-275, text-fig. 8 [♀ Holotype].
- chilensis** Eaton (*Atalophlebia*). Kimmins, 1960 : 294 [♂ Lectotype].
- [*chironomiformis* (Curtis) Stephens (*Caenis*), 1836 : 62. This specimen is in rather poor condition, but the form of the antennal bristle and the abdominal markings recall those of *Caenis moesta* Bengtsson. Whether Stephens correctly identified Curtis' species can only be settled by an examination of the type in the National Museum of Victoria.]
- cibaria** Eaton (*Caenis*). Kimmins, 1960 : 305 [♂ Lectotype].
- cingulata** Stephens (*Baetis*), 1836 : 67. LECTOTYPE ♂. Stephens Coll. / *cingulata* Steph. / *Baetis cingulata* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.  
Currently placed as a synonym of *Habrophlebia fusca* (Curt.).
- cognatum** Stephens (*Cloeon*), 1836 : 69. Holotype ♂. Stephens Coll. / *cognatum* Steph. / *C. dipterum* L., det. K. G. Blair / *Cloeon cognatum* Steph., ♂ Holotype, D. E. Kimmins det. 1969.  
The type now lacks its abdomen. Currently placed as a synonym of *C. dipterum* (L.).
- cognata** Stephens (*Ephemera*), 1836 : 56. LECTOTYPE ♀. Stephens Coll. / From its size and general appearance, I believe this to be one of the type-series of *Ephemera cognata* Stephens, D. E. Kimmins det. 1953 / *Ephemera cognata* Stephens, ♀ Lectotype, D. E. Kimmins det. 1969.  
This appears to be the only example with measurements approximating to those given by Stephens. An example bearing a label '2 cognata' is much too small to be considered as part of the type-series. Placed by Eaton as a synonym of *Ephemera danica* Müller.
- colombiae** Walker (*Ephemera*). Kimmins, 1960 : 302 [♀ Holotype].
- concinna** Walker (*Palingenia*). Kimmins, 1960 : 300 [♂ Holotype].

- concinnum** Eaton (*Cloeon*). Kimmins, 1960 : 292 [♂ Lectotype].
- continua** Walker (*Palingenia*). Kimmins, 1960 : 309 [♂ Holotype].
- corbeti** Kimmins (*Centroptilum*), 1956 : 75-76, text-figs 6-8. Holotype ♂ (in 2% formaldehyde solution). Uganda, Jinja, at light, xii.1954 (*P. S. Corbet*) / *Centroptilum corbeti* Kim., ♂ Holotype.  
The type and allotype are now much more reddish in color, having absorbed the red color bordering the type label.
- costale** Kimmins (*Dicercomyzon*), 1957b : 130-132, text-figs 1, 3. Holotype ♂ (in 2% formaldehyde solution). Gold Coast, Afram R., Mankrong, 13.ix.1950 (*Lewis Berner*) / *Dicercomyzon costale* Kim., ♂ Type, D. E. Kimmins det. 1956.
- crassi** Gillies (*Prosopistoma*), 1954 : 362-364, text-figs 4, 17, 19, 21. Holotype nymph (in 2% formaldehyde solution). S. Africa, Natal, Umgeni River, 1200 ft, xii.1953, (*R. S. C[rass]*). *Prosopistoma crassi* Holotype nymph [M. T. Gillies det.].
- cupulata** Eaton (*Heptagenia*). Kimmins, 1960 : 283 [♂ Lectotype].
- curtus** Eaton (*Campsurus*). Kimmins, 1960 : 312, text-fig. 60 [♂ Lectotype].
- curtus** Kimmins (*Euthraulus*), 1956 : 80-81, text-figs 14, 16. Holotype ♂ (mounted as two microscope preparations in euparal). Uganda, Kazi, 8.iii.1954 (*R. Hartland-Rowe*) / *Euthraulus curtus* Kim., ♂ Type.
- cylindroculum** Kimmins (*Procloeon*), 1955 : 865-866, text-fig. 2. Holotype ♂ (mounted as microscope preparation). Nyasaland, Tengadzi [Camp], 22.vii.1952 (*Lewis Berner*) / *Procloeon cylindroculum* Kim., ♂ Type.
- debilis** Walker (*Baetis*). Kimmins, 1960 : 302 [♂ Holotype].
- debilis** Walker (*Cloeon*). Kimmins, 1960 : 292, text-fig. 33. [♀ Lectotype].
- decipiens** Harker (*Deleatidium*), 1954 : 255, text-figs 38, 47, 48. Holotype ♂. N[ew] S[outh] W[ales], Upper Murrumbidgee R[iver], Adaminaby, 11.xii.1936 (*R. J. Tillyard*) / *Deleatidium decipiens*.
- decora** Walker (*Ephemera*). Kimmins, 1960 : 308 [♂ Holotype].
- decoratus** Kimmins (*Adenophlebiodes*), 1956 : 77-78, text-figs 10, 11. Holotype ♂ (in 2% formaldehyde solution). Uganda, Jinja, 6.iii.1954 (*P. S. Corbet*) / *Adenophlebiodes decoratus* Kim., ♂ Type, D. E. Kimmins det. 1954.  
*Adenophlebiodes decoratus* Kim., 1956 is a secondary homonym of *A. decorata* (Navás), 1931, and has been renamed *Adenophlebiodes (Hyalophlebia) demoulini* Kim., 1960.
- delicatula** Tillyard (*Atalophlebia*), 1936 : 47-49, text-figs 10, 16, 23. Holotype ♂. Atalophlebia delicatula Till., Holotype ♂, R.J.T., N. Esk [River], Tas[mania], 21.i.[19]33 [*R. J. Tillyard*].
- demoulini** Kimmins (*Adenophlebiodes*), 1960a : 352 [n.n. for *decoratus* Kim., 1956, *nec* Navás, 1931].
- dentata** Eaton (*Leptophlebia*). Kimmins, 1960 : 295, text-fig. 38 [♂ Lectotype].
- dentatum** Kimmins (*Cloeon*), 1956 : 76-77, text-fig. 9. Holotype ♂ (mounted as a preparation in euparal). Uganda, Jinja, ix-x, 1954 (*P. S. Corbet*) / *Cloeon dentatum* Kim., ♂ Type.
- determinatus** Walker (*Baetis*). Kimmins, 1960 : 285 [♂ Holotype].
- [*diluta* Stephens (*Ephemera*), 1836 : 58. Eaton, 1871 : 9 reported that the type was missing.]
- dimidiata** Stephens (*Caenis*), 1836 : 61. LECTOTYPE ♂. minimus / Stephens Coll. / *Caenis dimidiata* Stephens ♂ Type, D. E. Kimmins det. 1953 / *Caenis dimidiata* Stephens, ♂ Lectotype, D. E. Kimmins det. 1969.  
Currently placed as a synonym of *Caenis horaria* (L.).
- diminuta** Walker (*Caenis*). Kimmins, 1960 : 395 [♂ Holotype].



**dipsicus** Gillies (*Baetis*), 1949 : 163-164, text-figs 1, 10. Holotype ♂ (in 2% formaldehyde solution). India, Poona, R. Mutha, 10.ix.[19]45 (*M. T. Gillies*). *Baetis dipsicus* sp. n. Holotype ♂.

Although Gillies refers in the description to 'the type-specimens, four males and two females', he has labelled a holotype and I am accepting this as a designation of holotype.

**dislocans** Walker (*Ephemera*). Kimmins, 1960 : 294 [♀ Holotype].

**dispar** Stephens (*Ephemera*), 1836 : 58. LECTOTYPE ♂. Stephens Coll. / ? *Ephemera dispar* Steph., D. E. Kimmins det. 1953 / *Ephemera dispar* Stephens, ♂ Lectotype, D. E. Kimmins det. 1960.

This example agrees well with the description of the imago. The specimen bearing the label 'dispar Steph.' is the 'pseudimago'; it now consists of the mesothorax and anterior wings.

**dissitus** Eaton (*Ameletus*). Kimmins, 1960 : 270 [♂ Lectotype].

**distans** Eaton (*Oniscigaster*). Kimmins, 1960 : 271 [♀ Lectotype].

**dobbsi** Eaton (*Oligoneuria*). Kimmins, 1960 : 276-277, text-figs 9, 10 [♂ Holotype].

[**dubia** Stephens (*Ephemera*), 1836 : 59-60. Type not recognizable from description.

Placed by Eaton as synonymous with his *Baetis phaeops*. It is probably best treated as a *nomen oblitum*.]

**eatoni** Kimmins (*Baetis*), 1934 : 349-350, fig. 15. Holotype ♂. Mexico, N. Sonora (*Morrison*) / B.C.A. Neuropt., *Baetis* sp. / *Baetis eatoni* sp. n., det. D. E. Kimmins.

**eatoni** Kimmins (*Ecdyonurus*), 1937 : 438-439, pl. 11, fig. 3; text-fig. 5. Holotype ♂. Assam, Khasia Hills, Eaton Bequest / *Ecdyonurus eatoni* Kimmins, ♂ Type, det. D. E. Kimmins.

**edwardsi** Kimmins (*Caenis*), 1939 : 107-108, text-fig. 1. LECTOTYPE ♂. Uganda, Ruwenzori Range, xii.1934-i.1934.1935 (B. M. E. Afr. Exp.) / Fort Portal, 5000 ft (*F. W. Edwards*) / *Caenis edwardsi* Kimm. [♂] type, det. D. E. Kimmins / *Caenis edwardsi* Kim., ♂ Lectotype, D. E. Kimmins det. 1969.

**elongatula** McLachlan (*Leptophlebia*). Kimmins, 1960 : 304 [♀ Lectotype].

**erromangense** Kimmins (*Cloeon*), 1936 : 80-81, text-figs 9, 10. Holotype ♂ (mounted as two microscope preparations). New Hebrides, Erromanga, Man-o'-War, N. C., 3.ix.1930 (*L. E. Cheesman*) / *Cloeon erromangense* Kim., ♂ Type.

**exigua** Eaton (*Choroterpes*). Kimmins, 1960 : 296, text-fig. 44 [♂ Lectotype].

**expectans** Walker (*Potamanthus*). Kimmins, 1960 : 308 [♀ Holotype].

**explicatus** Eaton (*Tricorythus*). Kimmins, 1934 : 346 [designation of ♂ Lectotype (as 'type')].

**exquisitus** Eaton (*Ameletus*). Kimmins, 1960 : 270 [♂ Lectotype].

**facialis** Gillies (*Cryptopenella*), 1951 : 127, text-figs 11, 12, 14. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). Hong Kong [Colony], River Shing Man, near Kowloon, 22.iii.[19]47, *Cryptopenella facialis*, ♂ Holotype [*M. T. Gillies* det.].

**fasciatus** Eaton (*Bleptus*). Kimmins, 1960 : 278, text-fig. 12. [♂ Holotype].

**fasciatus** Kimmins (*Hagenulus*), 1956 : 81-82, text-figs 17, 18. Holotype ♂ (in 2% formaldehyde solution). Uganda, Kaazi, 12.viii.1954 (*R. Hartland-Rowe*), *Hagenulus fasciatus* Kim., ♂ Type.

**fnitimus** Eaton (*Baetis*). Kimmins, 1960 : 288, text-fig. 25 [♂ Lectotype].

**flaveola** (Pictet) Walker, 1853 : 559; Spieth, 1940 : 338.

Spieth places the ♀ imago as a synonym of *Stenonema luteum* Clemens, one ♀ subimago as *Stenonema rubromaculatum* Clemens and the other ♀ subimago as *Heptagenia hebe* McD.

- fluitans** Gillies (*Baetis*), 1949 : 166-167, text-figs 3, 18. Holotype ♂ [so labelled by author] (in 2% formaldehyde solution). India, Poona, R. Mutha, 10.ix.[19]45 [*M. T. Gillies*], *Baetis fluitans* sp. n. [*M. T. Gillies* det.].
- formosus** Eaton (*Potamanthus*). Kimmins, 1960 : 306, text-fig. 50 [♂ Lectotype].
- fradgleyi** Blair (*Rhithrogena*), 1929 : 253-254, text-fig. 1. Holotype ♂. Bickham, 1.vi. [19]28 (*K. F. F[radgley]*) / *Rhithrogena fradgleyi* Blair, Type, det. K. G. Blair.  
Currently placed as a synonym of *R. haarupi* Esben-Petersen.
- frater** Tillyard (*Baetis*), 1936 : 50-53, text-figs 20, 24, 26-28. Holotype ♂ (in 2% formaldehyde solution). *Baetis frater*, Weldborough, N.E. Tasmania, Type Male.
- [**fusca** (Curtis) Stephens (*Ephemera*), 1836 : 58. Synonymized by Eaton with *Ephemerella ignita* (Poda). Example not recognized.]
- fusca** Walker, nec Burmeister, (*Baetis*), 1853 : 568; Spieth, 1940 : 334. Re-named *Rhithrogena jejuna* Eaton, 1885.
- fuscata** Walker (*Baetis*). Kimmins, 1960 : 304 [♂ Lectotype].  
According to Spieth, 1940 : 335, the second (subimaginal) example is probably a *Rhithrogena*.
- fuscula** Tillyard (*Atalophlebia*), 1936 : 44-47, text-figs 9, 15, 19, 22. Holotype ♂. *Atalophlebia fuscula* Till., Holotype ♂, R. T. J., R. Shannon, Tas[mania], 27.i.[19]33.
- gallica** Eaton (*Heptagenia*). Kimmins, 1960 : 282, text-fig. 18 [♂ Lectotype].
- gemellus** Eaton (*Baetis*). Kimmins, 1960 : 288 [♂ Lectotype].
- geminatum** Eaton (*Cinygma*). Kimmins, 1960 : 283 [♀ Lectotype].
- geminus** Eaton (*Epeorus*). Kimmins, 1960 : 280, text-fig. 16 [♂ Lectotype].
- giganteus** Tillyard (*Coloburiscus*), 1933 : 22-29, text-figs 32-45; pl. 1, figs 7, 8. Holotype ♂. [New South Wales], Mt Kosciusko, 5000 ft, [Digger's Creek], 30.i.1930 (*R. J. Tillyard*) / *Coloburiscus giganteus* Till., ♂ Holotype Imago, R. J. T.  
Currently placed in *Coloburiscoides*.
- gilliesi** Corbet (*Afronurus*), 1962 : 573-575, text-figs 1-3. Holotype ♂ (in 2% formaldehyde solution). [Tanganyika], Sigi R., Amani, 1800 ft, 2.v.[19]53 (*M. T. Gillies*), *Afronurus* II / *Afronurus gilliesi* sp. n., P. S. Corbet det. / ♂ Type.
- grandis** Eaton (*Ephemerella*). Kimmins, 1960 : 304 [♀ Lectotype].
- gravastellus** Eaton (*Blasturus*). Kimmins, 1960 : 300 [♂ Holotype].
- gregalis** Eaton (*Leptophlebia*). Kimmins, 1960 : 300 [♂ Holotype].
- harrisoni** Barnard (*Afronurus*), 1932 : 257-258, text-figs 45, 46b, c, 48; Schoonbee, 1968 : 24 (Lectotype designation). Lectotype ♂. Groot Drakenstein [*A. C. H.*], *Afronurus harrisoni* Brnd., ♂ Lectotype, H. Schoonbee det. 1964.  
Lectotype label written by D. E. K. at Mr. Schoonbee's request.
- harveyi** Kimmins (*Procloeon*), 1947 : 94-95, figs 2, 6, 10. Holotype ♀ (in 2% formaldehyde solution). [Bengal], Calcutta distr., Nov. 1945 (*D. E. Kimmins*), *Procloeon harveyi* Kim., Type ♀.
- hebe** Walker (*Ephemera*). Kimmins, 1960 : 300 [♀ Holotype].
- helveticus** Eaton (*Ecdyurus*). Kimmins, 1942a : 125 [♂ Lectotype].
- helvipes** Stephens (*Ephemera*), 1836 : 59. Holotype ♀. Small red label / *helvipes* *Step.* / Stephens Coll. / *Ephemera helvipes* Steph., ♀ Holotype, D. E. Kimmins det. 1969.  
Currently placed as a synonym of *Paraleptophlebia submarginata* (Stephens).
- hilaris** Eaton (*Thraululus*). Kimmins, 1934 : 345, fig. 10 [designation of lectotype ♂ (as 'type')].

- hindustanicus** Gillies (*Thraulius*), 1951 : 122-124, text-figs 1, 2, 5, 7. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). India, N. Bengal, [Darjeeling Distr., Mirik, [3500-4000 ft] 18.ix.[19]46 [M. T. Gillies], *Thraulius hindustanicus* sp. n., ♂ holotype. [M. T. Gillies det.]
- hudsoni** McLachlan (*Ephemera*). Kimmins, 1960 : 311, text-fig. 59 [♂ Lectotype].
- humeralis** Walker (*Palingenia*). Kimmins, 1960 : 274 [♀ Holotype].
- humilis** Eaton (*Choroterpes*). Kimmins, 1960 : 296, text-fig. 42 [♂ Lectotype].
- [**hyalinatum** Stephens (*Cloeon*). Type not distinguishable from *Centroptilum luteolum* series.]
- hybrida** Eaton (*Rhithrogena*). Kimmins, 1960 : 284, text-fig. 21 [♂ Lectotype].
- ida** Tillyard (*Atalophlebia*), 1936 : 42-43, pl. 1, fig. 10; text-fig. 7. Holotype ♀. Tasmania, 7.ii.1933 (*R. J. Tillyard*), *Atalophlebia ida* Tillyard, ♀ Holotype, D. E. Kimmins det. 1969.  
This example originally bore a BM paratype label, but has been relabelled Holotype to agree with Tillyard's description.
- ignota** Walker (*Baetis*). Kimmins, 1960 : 274, text-fig. 5 [♂ Holotype].
- illustris** Eaton (*Hexagenia*). Kimmins, 1960 : 307 [♂ Holotype].
- inopinatus** Eaton (*Ameletus*). Kimmins, 1960 : 270 [♀ Lectotype].
- inopinum** Gillies (*Pseudocloeon*), 1949 : 171-172, text-fig. 2. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). [India], N. Bengal, 4000 ft, 20.ix.[19]46 [M. T. Gillies], *Pseudocloeon inopinum* sp. n., ♂ Holotype. [M. T. Gillies det.]
- inornata** Eaton (*Choroterpes*). Kimmins, 1934 : 340, fig. 2 [designation of Lectotype (as 'type')].
- insignis** Eaton (*Heptagenia*). Kimmins, 1960 : 279 [♂ Lectotype].
- integrum** Eaton (*Cinygma*). Kimmins, 1960 : 278 [♂ Lectotype].
- intermedia** Eaton (*Chironetes*) Kimmins, 1960 : 274 [♂ Holotype].
- intermedius** Eaton (*Oniscigaster*). Kimmins, 1960 : 271 [♀ Holotype].
- interrupta** Stephens (*Caenis*), 1836 : 62. LECTOTYPE ♂. *macrura* Steph. / *Caenis macrura* Steph. ♂ [abdomen in glycerine], D. E. Kimmins det. 1961 / *Caenis interrupta* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.  
There is no example bearing this name in the Stephens Coll. According to Eaton (1871 : 21), it was a female of *Caenis macrura* Steph., but he does not refer to it earlier (1871 : 9), possibly because it had no Stephens Coll. label. The style of mounting is similar, it agrees well with the description and I have therefore designated it as Lectotype. Currently placed as a synonym of *Caenis macrura* Steph.
- invaria** Walker (*Baetis*). Kimmins, 1960 : 304 [♂ Lectotype].
- italicus** Eaton (*Ecdyurus*). Kimmins, 1942a : 125 [♂ Lectotype].
- japonica** McLachlan (*Ephemera*). Kimmins, 1960 : 308 [♂ Lectotype].
- jejuna** Eaton (*Rhithrogena*). Kimmins, 1960 : 284 [♂ Lectotype].
- jinjana** Kimmins (*Caenodes*), 1956 : 84-86, text-figs 22, 23. Holotype ♂ (mounted as microscope preparation). Uganda, Jinja, at light, ix-x.1954 (*P. S. Corbet*) / *Caenodes jinjana* Kimmins, ♂ Type.
- julia** Gillies (*Cloeon*), 1949 : 176, text-fig. 22. Holotype ♀ (unique) (in 2% formaldehyde solution). Malaya, Johore, Kluang, 9.vii.[19]46 (*M. T. Gillies*), *Cloeon julia* sp. n. ♀ Holotype [M. T. Gillies det.].
- kala** Harker (*Atalophlebia*), 1954 : 247-248, text-figs 7, 8, 36. Holotype ♂. [New South Wales], Mt. Kosciusko, Lake Albina, 2.ii.1929 (*R. J. Tillyard*) / *Atalophlebia kala* [J.E.H.] / Abdomen in slide cabinet.



- kiboensis** Gillies (*Ephemerythus*), 1960 : 37-38, text-figs 5, 8. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, Kilimanjaro, [4000 ft], Marungu, 25.x.[19]54 [M. T. Gillies], *Ephemerythus kiboensis* sp. n. ♂ holotype [M. T. Gillies det.].
- kokunia** Harker (*Atalophlebia*), 1954 : 244-246, text-figs 5, 6, 13. Holotype ♂. Q[ueensland], Eidsvold, 28.viii.[19]29 [R. J. Tillyard] / *Atalophlebia kokunia* [J. E. H. handwriting].
- kungu** Eaton (*Caenis*). Kimmins, 1960 : 305 [♂ Holotype].
- lacusalbinae** Tillyard (*Ameletoides*), 1933 : 6-11, text-figs 1-11, pl. 1, figs 1-2. Holotype ♂. N[ew] S[outh] W[ales], Mt. Kosciusko, Lake Albina, 6350 ft, 2.ii.1929 (R. J. Tillyard) / *Ameletoides lacus-albinae* Till., Holotype, ♂ Imago, R.J.T.
- lacuscaerulei** Tillyard (*Tasmanophlebia*), 1933 : 13-17, text-figs 17-30; pl. 1, figs 3-6. Holotype ♂. N[ew] S[outh] W[ales], Mt Kosciusko, Blue Lake, (6200 ft), 1.ii.1930 (R. J. Tillyard), *Tasmanophlebia lacus-caerulei* Till., ♂ Holotype Imago, R.J.T.
- lacustre** Eaton (*Centroptilum*). Kimmins, 1960 : 290, text-fig. 28 [♂ Lectotype].
- lacustris** Eaton (*Siphonurus*). Kimmins, 1960 : 272 [♂ Holotype].
- lacustris** Tillyard (*Tasmanophlebia*), 1921 : 410-412, pl. 34; text-figs 1, 2. Holotype ♂ (imago). Tas[mania], Cradle Mt., [Lake Lilla, 3000 ft], 23.i.[19]17 [reared from subimago] [R. J. Tillyard] / *Tasmanophlebia lacustris* Till., Type ♂ im[ago], R.J.T.
- laetus** Eaton (*Thraululus*). Kimmins, 1960 : 302 [♂ Holotype].
- lanceolatus** Kimmins (*Tricorythus*), 1960a : 353-355, text-fig. 10. Holotype ♂ (mounted as microscope preparation). Uganda, West Nile, near Laropi, 27-28.iv.1956 (P. S. Corbet) / *Tricorythus lanceolatus* Kim., ♂ Holotype.
- lata** Walker (*Palingenia*). Kimmins, 1960 : 314, text-fig. 64 [♂ Lectotype].
- latipennis** Walker (*Palingenia*). Kimmins, 1960 : 313, text-fig. 62 [♂ Lectotype].
- lepidus** Eaton (*Thraululus*). Kimmins, 1960 : 303 [♂ Holotype].
- lillii** Eaton (*Deleatidium*). Kimmins, 1960 : 298, text-fig. 43. [♂ Lectotype].
- lineata** Eaton (*Ephemera*). Kimmins, 1960 : 308 [♂ Lectotype].
- longicauda** Stephens (*Baetis*), 1836 : 63. LECTOTYPE ♂. Stephens Coll. / *annulata* Schaeff.? / *Baetis longicauda* Stephens, ♂ Type, D. E. Kimmins det. 1953. / *Baetis longicauda* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.  
Currently placed as *Heptagenia longicauda* (Stephens).
- longimanus** Eaton (*Iron*). Kimmins, 1960 : 282 [♂ Lectotype].
- loweae** Kimmins (*Centroptilum*), 1949 : 829-830, text-figs 1-4. Holotype ♂ (in 2% formaldehyde solution). Nyasaland, L. Nyasa, Chipoka II, 27.x.[19]46 (R. H. Lowe) / *Centroptilum loweae* Kim., Type ♂.
- luridipennis** Walker [nec Burmeister] (*Baetis*). Kimmins, 1960 : 284.
- lusitanica** Eaton (*Choroterpes*). Kimmins, 1960 : 296, text-fig. 45. [♂ Lectotype].
- [**lutea** (L.) Stephens (*Ephemera*), 1836 : 57. Eaton (1871 : 9, 145) placed this as a synonym of *Heptagenia elegans* (Stephens), but I have been unable to trace the specimen(s) in the Stephens Collection.]
- lutheri** Müller-Liebenau (*Baetis*), 1967 : 48-64, 8 text-figs. Holotype ♂ (in 2% formaldehyde solution). *Baetis lutheri* ♂, Ahr oberhalb Altenahr (Eifel), 30 August 1967. Müller-Liebenau leg. et det.
- macani** Kimmins (*Baetis*), 1957a : 27-29, text-figs 1M, 2M. Holotype ♂ (in 2% formaldehyde solution, genitalia in small tube of glycerine). N. Finland, [Mt] Sanna, c. 800 m, [near Kilpisjärvi, [bred from nymphs in a] small [stony] lake, 15.viii.1956 (T. T. Macan) / *Baetis macani* Kim. ♂ Holotype, Genitalia in small tube of glycerine, D. E. Kimmins det. 1957.



- [*macrura* Stephens (*Caenis*), 1836 : 60–61. Type stated by Eaton (1871 : 9) to be missing. There is in the Stephens Coll. an example without Stephens Coll. label, but similarly mounted and labelled 'macrura *Step.*', but in view of Eaton's statement, it cannot be considered as the type of *macrura*. It has been designated the Lectotype of *Caenis interrupta* Stephens.]
- maculatus* Kimmins (*Tricorythus*), 1949 : 834–836, text-figs 8–10. Holotype ♂ (in 2% formaldehyde solution). Nyasaland, L. Nyasa, Chipoka II, 3.vii.[19]46–27.x.[19]46. *Tricorythus maculatus* Kim., Holotype ♂.
- major* Eaton (*Teloganodes*). Kimmins, 1960 : 304 [♀ Lectotype].
- manca* Eaton (*Isonychia*). Kimmins, 1960 : 274 [♀ Lectotype].
- marginatum* Kimmins (*Diceromyzon*), 1957b : 132–136, text-figs 2, 4–8. Holotype ♂ (in 2% formaldehyde solution). Tanganyika Terr., E. Usambara Mts (*M. T. Gillies*) / *Afrohyphes*<sup>1</sup> I, ♂ imago from nymph, 2.7.[19]53, Sigi R., 700' / *Diceromyzon marginatum* Kim., ♂ Holotype, D. E. Kimmins det. 1956.
- [*marginata* (L.) Stephens (*Ephemera*), 1836 : 57. The specimen bearing this label does not agree with the description; it is a ♂ *Rhithrogena semicolorata* (Curtis), as stated by Eaton (1871 : 9)].
- maurus* Kimmins (*Baetis*), 1938 : 302–305, pl. 10, 5 text-figs. Holotype ♂ (in 2% formaldehyde solution). Morocco, Atlas Mountains, R. Amengous [an upper tributary of the Oumer Rebia], v.1937 (*A. H. Batten-Pool*), *Baetis maurus* Kimm. [♂] Type, det. D. E. Kimmins.
- melanonyx* Pictet (*Cloe*), 1845 : 258, pl. 40, fig. 6. A neotype ♂ is being designated by Dr I. Müller-Liebenau in her revision of the European species of *Baetis* (*in press*), based upon an example from Eaton's series of *Baetis melanonyx* Pictet in BMNH.
- mimus* Eaton (*Cinygma*). Kimmins, 1960 : 278 [♂ Lectotype].
- minor* Stephens (*Ephemera*), 1836 : 60. Holotype ♀. Small green label / Stephens Coll. / *Ephemera minor* Stephens, det. D. E. Kimmins, 1953 / *Ephemera minor* Steph., ♀ Holotype, D. E. Kimmins det. 1969.  
Currently placed as a synonym of *Habrophlebia fusca* (Curtis).
- miunga* Harker (*Atalophlebia*), 1954 : 246, text-figs 9, 10, 35. Holotype ♂ (in 2% formaldehyde solution). New South Wales, Armidale, 3000 ft, xi.1948 [*J. E. Harker*], *Atalophlebia miunga* Hark., Type.  
The figures of ♂ genitalia are from a paratype; the holotype was not dissected.
- monstratus* Eaton (*Hagenulus*). Kimmins, 1960 : 300 [♂ Lectotype].
- montanus* Eaton (*Callibaetis*). Kimmins, 1960 : 290 [♀ Lectotype].
- montanus* Kimmins (*Centroptilum*), 1960a : 345, text-figs 4, 5. Holotype ♂ (mounted as two microscope preparations). [Uganda], Mt. Elgon, 11,600 ft, R. Sasa, 29.xii.1954 (*P. S. Corbet*). *Centroptilum montanum* Kim., ♂ Holotype.
- munionga* Tillyard (*Coloburiscus*), 1933 : 29–31, text-figs 44–45; pl. 1, figs 9, 10. Holotype ♂. [New South Wales], Mt Kosciusko, [Digger's Creek], 4000 ft, 12.xii.[19]31 (*R. J. Tillyard*) / *Coloburiscus munionga* Till., ♂ Holotype Imago.
- nanatum* Harker (*Deleatidium*), 1965 : 255, text-figs 44–46. Holotype ♂, N[ew] S[outh] W[ales], Upper Murrumbidgee River, Adaminaby, 11.xii.1936 (*R. J. Tillyard*) / *Deleatidium nanatum*.  
The year of capture was wrongly recorded as 1926 in the original description.
- natata* Walker (*Palingenia*). Kimmins 1960 : 308 [♀ Lectotype].
- nebulosus* Walker (*Palingenia*). Spieth, 1940 : 327 [♂ Lectotype].

<sup>1</sup>The quotation here of Gillies' manuscript generic name *Afrohyphes* constitutes publication in synonymy, and under Art. 11(d) of the International Code of Zoological Nomenclature (2nd Edition), the name is not thereby made available.

- negi* Corbet (*Afronurus*), 1960 : 68-70, text-figs 1-9. Holotype ♂ (in 2% formaldehyde solution). [Uganda], Sebire River, Toro, 28-30.iii.[19]59 (*P. S. Corbet*) / *Notonurus negi* sp. n. Cbt / ♂ Type.
- nemorale* Eaton (*Centroptilum*). Kimmins, 1960 : 290, text-fig. 29 [♂ Holotype].
- nervosa* Eaton (*Choroterpes*). Kimmins, 1960 : 303 [♂ Holotype].
- nervulosa* Eaton (*Habrophlebia*). Kimmins, 1960 : 299, text-fig. 46. [♂ Lectotype].
- niger* Gillies (*Ephemerythus*), 1960 : 35-36, text-figs 1-3, 6, 9. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, [Tanga Province], Amani, 25.vi.[19]56 [*M. T. Gillies*] *Ephemerythus niger* sp. n., ♂ holotype [*M. T. Gillies* det.].
- nigrescens* Tillyard (*Tasmanophlebia*), 1933 : 18-20, text-figs 28, 29, 30B; pl. 1, figs 5, 6. Holotype ♂. N[ew] S[outh] W[ales], Mt. Kosciusko, Spencer's Creek, [5700 ft], 6000 ft, 29.i.1930 (*R. J. Tillyard*) / *Tasmanophlebia nigrescens* Till., Holotype ♂ Imago.  
The description gives the altitude as 5700 ft, the label 6000 ft.
- nitidus* Eaton (*Iron*). Kimmins, 1960 : 283 [♂ Lectotype].
- nivata* Eaton (*Heptagenia*). Kimmins, 1960 : 284 [♂ Lectotype].
- njalensis* Kimmins (*Afronurus*), 1937 : 433-434, text-fig. 2. Holotype ♂. Sierra Leone, Njala, 9.xi.[19]30 (*E. Hargreaves*) / *Afronurus njalensis* Kimmins, ♂ Type, det. D. E. Kimmins.
- nodularis* Eaton (*Leptophlebia*). Kimmins, 1960 : 295, text-fig. 41 [♂ Lectotype].
- norvegicus* Eaton (*Metretopus*). Kimmins, 1960 : 286 [♂ Lectotype].
- notabile* Kimmins (*Centroptilum*), 1956 : 73-75, text-figs 3-5. Holotype ♂ (as microscope preparation in euparal). Uganda, Jinja, at light, xii.1954 (*P. S. Corbet*) / *Centroptilum notabile* Kim., ♂ Type.
- notata* Eaton (*Ephemerella*). Kimmins, 1960 : 304 [♂ Lectotype].
- nubecularis* Eaton (*Baetis*). Kimmins, 1960 : 289 [♂ Holotype].
- nubila* Kimmins (*Heptagenia*), 1937 : 437-438, pl. 11, fig. 2; text-fig. 4. Holotype ♂. Assam, Khasia Hills, Eaton Bequest / *Heptagenia nubila* Kimmins, ♂ Type, det. D. E. Kimmins.
- obscura* Stephens (*Baetis*), 1836 : 65. Holotype ♀. Stephens Coll. / *obscura* Steph. / *Baetis obscura* Steph., ♀ Holotype, D. E. Kimmins det.  
Currently placed as a synonym of *Ephemerella ignita* (Poda). The type now lacks the left fore wing.
- occidentalis* Eaton (*Siphylurus*). Kimmins, 1960 : 273 [♂ Lectotype].
- occulta* Walker (*Palingenia*). Kimmins, 1960 : 311 [♂ Lectotype].
- [*ochraceum* Stephens (*Cloeon*). Type not recognizable in the series of *Centroptilum lutoleum* (Müller).]
- ornatus* Eaton (?*Chirotonetes*). Kimmins, 1960 : 270-271 [♀ Neotype].
- pallipes* Eaton (*Spaniophlebia*). Kimmins, 1960 : 276 [♂ Lectotype].
- pallipes* Walker (*Palingenia*). Kimmins, 1960 : 301 [♀ Lectotype].
- palmyrae* Gillies (*Baetis*), 1949 : 164-166, text-figs 2, 14, 15. Holotype ♂ (specimen so labelled by author) (in 2% formaldehyde solution). India, Poona, R. Mutha, 10.ix.[19]45 [*M. T. Gillies*], *Baetis palyrae* sp. n. / [*M. T. Gillies* det.].
- par* Eaton (*Cinygma*). Kimmins, 1960 : 278 [♂ Lectotype].
- parvulus* Gillies (*Thraululus*), 1951 : 124-125, text-figs 3, 4, 6, 8. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). [India, Central Provinces], R. Sonar, nr Saugor, 11.iii.[19]45 [*M. T. Gillies*], *Thraululus parvulus* sp. n. [*M. T. Gillies* det.].
- pennata* Stephens (*Caenis (Brachycercus)*), 1836 : 61. LECTOTYPE [?sex]. *pennata* Steph. / Stephens Coll. / *Brachycercus pennata* Steph., Lectotype, D. E. Kimmins det. 1969.

Type somewhat damaged. Apex of left wing and apex of abdomen missing, only a hind leg present. Synonym of *Brachycercus harrisella* Curtis.

**pennulatum** Eaton (*Centroptilum*). Kimmins, 1960 : 290 [♂ Lectotype].

**perpusilla** Walker (*Caenis*). Kimmins, 1960 : 305. [♂ Holotype].

**perscitus** Eaton (*Ameletus*). Kimmins, 1960 : 270 [♀ Holotype].

**picea** Kimmins (*Caenis*), 1947 : 99-100, text-fig. 14. Holotype ♂ (in 2% formaldehyde solution). [India], Bengal, Calcutta, reservoir of Baranagar[-Kamarhati] Waterworks 29.xii.1945 (*D. E. Kimmins*), *Caenis picea* Kim., Type ♂.

**pictiventris** McLachlan (*Ephemera*). Kimmins, 1960 : 308 [♀ Lectotype].

**pictus** Eaton (*Baetis*). Kimmins, 1960 : 290 [♂ Lectotype].

**pictus** Gillies (*Ephemerythus*), 1960 : 36, text-figs 4, 7, 10, 11. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, [Tanga Province], Sigi R., Amani, 20.ix.[19]54 [*M. T. Gillies*], *Ephemerythus pictus* sp. n., ♂ Holotype [M. T. Gillies det.].

**pierda** Harker [*Atalophlebia*], 1954 : 246, text-figs 11, 12, 37. Holotype ♂. N[ew] S[outh] W[ales], Hornsby, bred 21.ix.[19]17 (*R. J. Tillyard*) / Abdomen in slide cabinet / Genitalia, slide V / *Atalophlebia pierda* [J.E.H. handwriting].

**piscina** Kimmins (*Caenis*), 1947 : 99, text-fig. 13. Holotype ♂. [Bengal], Calcutta distr., x.1945 (*D. E. Kimmins*) / *Caenis piscina* Kim., ♂ Type.

**praepedita** Eaton (*Leptophlebia*). Kimmins, 1960 : 302 [Lectotype].

**primanus** Eaton (*Thraulius*). Kimmins, 1934 : 342 [designation of ♂ Lectotype (as 'type')].

[**procera** Harker (*Kirrara*), 1954 : 259-260, text-figs 43, 58, 59. The ♂ holotype has not been traced in our collection, the ♀ allotype bears a BM Type-label.]

**pseudorufulum** Kimmins (*Proclleon*), 1957 : 31-32, text-figs A, B. Holotype ♂ (in 2% formaldehyde solution). [England], Hereford, Kington, R. Arrow, 17-20.vi.1947 (*D. E. Kimmins*) / *Proclleon pseudorufulum* Kim., ♂ Type, D. E. Kimmins det. 195-.

**pulcher** Ulmer (*Afronurus*), 1930 : 507-511, text-figs 26-28. LECTOTYPE ♂ (subimago) Abyssinia, Muger River Valley, c. 5500 ft, 29.xii.1926 (*H. Scott*) / *Afronurus pulcher* Ulmer ♂ [subimago] Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Afronurus collarti* Navás.

**pulcherrima** Eaton (*Ephemera*). Kimmins, 1960 : 308 [♀ Holotype].

**pulchrum** Eaton (*Centroptilum*). Kimmins, 1960 : 290, text-fig. 30 [♂ Lectotype].

**purpurea** Gillies (*Isca*), 1951 : 128-130, text-figs 15-22. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). Hong Kong, San Wai, 30.iii.1947 [*M. T. Gillies*], *Isca purpurea*, ♂ Holotype.

**pusillum** Harker (*Deleatidium*), 1956 : 253, text-figs 40, 51, 52. Holotype ♂. N[ew] S[outh] W[ales], Bolaro, 10.ii.1936 (*R. J. Tillyard*) / *Deleatidium pusillum* [J.E.H.].  
♂ genitalia mounted in canada balsam and attached to type-pin.

[**quaesitor** Eaton (*Ecdyurus*). Kimmins, 1960 : 279-280 [Type presumed lost]].

[**remotus** Walker (*Baetis*). Kimmins, 1960 : 274 [Type presumed lost]].

**rivulorum** Eaton (*Caenis*). Kimmins, 1960 : 305 [♂ Lectotype].

**robusta** Eaton (*Caenis*). Kimmins, 1960 : 305 [♂ Lectotype].

**rosea** Stephens (*Ephemera*), 1836 : 59. LECTOTYPE ♂. Small green label / Stephens Coll. / *rosea* Steph. / *Ephemera rosea* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.

Placed by Eaton as a synonym of *Ephemerella ignita* (Poda). The type has been damaged by insect pests, and part of the abdomen, including the anal appendages, is missing.



- rothschildi** Navás (*Ecdyonurus*), 1929 : 59-60, text-fig. 2. Holotype ♂. [Algeria], Biskra, March 13-April 8, 1914 (*W. R[othschild]* & *E. H[artert]*) / *Ecdyonurus* Rothschildi ♂ Nav., P. Navás S. J. det. / Red label 'Typus'.
- [**rufescens** Stephens (*Ephemera*), 1836 : 59. Type not recognizable with certainty.  
Eaton placed this species as a synonym of *Ephemerella ignita* (Poda) but the example bearing the label 'rufescens' was removed from *Ephemerella ignita* by Blair and placed as *Leptophlebia* sp. It is a female, possibly *Leptophlebia marginata*. This appears to be a case of the label having been changed since Eaton's time. I do not propose to make a lectotype.]
- rufivenosa** Eaton (*Leptophlebia*). Kimmins, 1960 : 302 [♀ Lectotype].
- salvini** Eaton (*Baetis*). Kimmins, 1960 : 289 [♂ Lectotype].
- salvini** Kimmins (*Heptagenia*), 1934 : 351-353, text-figs 16-17. Holotype ♂. Mexico, N. Sonora (*Morrison*) / B. C. A. Neuropt., Genus ? near *Cinygma* sec Eaton / *Heptagenia salvini* sp. n. Type ♂, det. D. E. Kimmins.
- salviniae** Eaton (*Homoeoneuria*). Kimmins, 1960 : 276 [♂ Lectotype].
- samoense** Tillyard (*Cloeon*), 1928 : 45-47, text-figs 1-2. Holotype ♂. Samoan Is., Upolu, Vailima, 25.x.1924 (*P. A. Buxton* & *G. H. Hopkins*) / *Cloeon samoense* Till., ♂ imago holotype, R.J.T. / Abdomen in slide cabinet.
- scambus** Eaton (*Baetis*). Kimmins, 1960 : 289 [♂ Topotype].
- scita** Walker (*Baetis*). Kimmins, 1960 : 295, text-fig. 40 [♂ Lectotype].
- scitulum** Kimmins (*Cloeon*), 1955 : 863-865, text-figs 1a-c. Holotype ♂ (mounted as microscope preparation in euparal). Nyasaland, Chiromo, 26.vii.1952 (*Lewis Berner*) / *Cloeon scitulum* Kim., ♂ Holotype.
- scotti** Eaton (*Hagenulus*). Kimmins, 1960 : 300, text-fig. 48 [♂ Holotype].
- [**scotti** Tillyard (*Caenis*), 1936 : 56-58, text-figs 31-33. Type mounted whole on slide, possibly in Canberra, unless slides in our collection have wrong locality data. *C. scotti* Tillyard is a homonym of *C. scotti* Ulmer, 1930 and has been renamed *C. tillyardi* Lestage].
- scotti** Ulmer (*Caenis*), 505-507, text-fig. 25. LECTOTYPE ♂. Abyssinia, near Addis Allem, c. 8000 ft, 19.ix.1926 (*H. Scott*) / *Caenis* Scotti Ulm., Typen / *Caenis scotti* Ulm., ♂ Lectotype, D. E. Kimmins det. 1969.
- semicastanea** Gillies (*Habrophlebiodes*), 1951 : 125, text-figs 9, 10, 13. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). [India], Poona, R. Mutha, 20.ix.[19]45 [*M. T. Gillies*] / *Habrophlebiodes semicastanea* sp. n. [*M. T. Gillies* det.].  
Currently placed in the genus *Masharikella*.
- septimum** Gillies (*Cloeon*), 1949 : 174-175, text-fig. 21. Holotype ♀ (so labelled by author) (in 2% formaldehyde solution). Malaya, Johore, Batu Pahat, 25.iv.[19]46 [*M. T. Gillies*], *Cloeon septimum* sp. n. ♂ Holotype [*M. T. Gillies* det.].
- serica** Eaton (*Ephemera*). Kimmins, 1960 : 309, text-fig. 53 [♂ Lectotype].
- sibirica** McLachlan (*Palingenia*). Kimmins, 1960 : 314-315, text-fig. 65 [♂ Holotype].
- siccum** Gillies (*Cloeon*), 1949 : 174. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). India, C[entral] P[rovinces], branch of the River Sonar, where it crosses the Saugor-Damoh road at the 12th milestone, 11.iii.[19]45 [*M. T. Gillies*], *Cloeon siccum* sp. n. [*M. T. Gillies* det.].
- simile** Eaton (*Cloeon*). Kimmins, 1960 : 292 [♂ Lectotype].
- simulans** Walker (*Ephemera*). Kimmins, 1960 : 309 [♂ Holotype].
- sinensis** Walker (*Caenis*). Kimmins, 1960 : 292 [♂ Holotype almost completely destroyed].
- sogeriensis** Harker (*Baetis*), 1954 : 264, text-figs 72-74. Holotype ♂ (in 2% formaldehyde solution). New Guinea, Sogeri, 1.vi.1947 (*R. Wharton*), *Baetis sogeriensis* Hark., Type.



**solitarius** Gillies (*Baetis*), 1949 : 170, figs 6, 11. Holotype ♂ (in 2% formaldehyde solution). India, N. Bengal, Mirik, 4000 ft, 20.ix.[19]46 [*M. T. Gillies*], *Baetis solitarius* sp. n. ♂ holotype [M. T. Gillies det.].

**southi** Blair (*Haplogenia*), 1929 : 255, text-figs 2-4. Holotype ♂. [Middlesex], Stanmore, 4.vi.[19]20 [*R. South*] / Left wings in slide cabinet / *Haplogenia southi* Blair, Type, det. K. G. Blair.

Currently placed as a synonym of *Arthroplea congener* Bengtsson.

**stenopteryx** Eaton (*Centroptilum*). Kimmins, 1960 : 291, text-fig. 31 [♂ Lectotype].

**stigma** Stephens (*Ephemera*), 1836 : 56-57. Holotype ♂. Stephens Coll. / *stigma Step.* / I believe this to be the type of *Ephemera stigma* Stephens, in spite of the slightly banded setae. D. E. Kimmins det. 1953 / *Ephemera stigma* Stephens, ♂ Holotype, D. E. Kimmins det. 1969. Placed by Eaton as a synonym of *Leptophlebia marginata* (Linnaeus).

**strigata** Eaton (*Ephemera*). Kimmins, 1960 : 309, text-fig. 55 [♂ Lectotype].

**strigata** Eaton (*Leptophlebia*). Kimmins, 1960 : 299 [♀ Holotype].

**subfusca** Stephens (*Baetis*), 1836 : 64. Holotype ♀. Stephens Coll. / *subfusca Step.* / *Baetis subfusca* Steph., ♀ Holotype, D. E. Kimmins det. 1969. Probably a synonym of *Ecdyonurus dispar* (Curtis).

**subfuscus** Kimmins (*Ecdyonurus*), 1937 : 439-440, text-fig. 6. Holotype ♂. Assam, Khasia Hills, Eaton Bequest / *Ecdyonurus subfuscus* Kimmins, ♂ Type, det. D. E. Kimmins. Holotype with apex of abdomen cleared and mounted in canada balsam.

**submarginata** Stephens (*Ephemera*), 1836 : 58. LECTOTYPE ♂. Stephens Coll. (with small green label) / NB. Right f.w. is *Ephemerella ignita*, det. K. G. Blair / ? Type of *Ephemera submarginata* Steph., D. E. Kimmins det. 1953 / *Ephemera submarginata* Stephens, ♂ Lectotype, D. E. Kimmins det. 1969.

The head of the lectotype is missing. Currently placed in the genus *Paraleptophlebia*.

**subnotatus** Eaton (*Ameletus*). Kimmins, 1960 : 270 [♂ Lectotype].

**tabularis** Eaton (*Atalophlebia*). Kimmins, 1960 : 294 [Type not located].

**talcosa** Stephens (*Ephemera*), 1836 : 57. Holotype ♀. Stephens Coll. / *talcosa* / *Ephemera talcosa* Stephens, ♀ Holotype, det. D. E. Kimmins, 1969.

Placed by Eaton as a synonym of *Leptophlebia marginata* (L.).

**taprobanes** Walker (*Baetis*). Kimmins, 1960 : 296, text-fig. 37 [♂ Holotype].

**tarsalis** Eaton (*Atopopus*). Kimmins, 1960 : 177, text-flag. 11 [♂ Lectotype].

**tasmaniae** Tillyard (*Cloeon*), 1936 : 53-55. Holotype ♂ (in 2% formaldehyde solution). *Cloeon tasmaniae* Till., Holotype ♂ Tas[mania], Stewarton, 8.ii.[19]33 (*Eric Scott*).

**tenax** Eaton (*Baetis*). Kimmins, 1960 : 289 [♂ Topotype].

**tessellatum** Walker (*Baetis*). Kimmins, 1960 : 284 [♀ subim. Holotype].

**thurbonis** Gillies (*Baetis*), 1949 : 168-170, text-figs 5, 16. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). [India], N. Bengal, Mirik, [Thurbo Tea Estate], 4000 ft, 20.ix.[19]46 [*M. T. Gillies*], *Baetis thurbonis* sp. n. [M. T. Gillies det.].

**tigroides** Gillies (*Baetis*), 1949 : 167-168, text-figs 4, 8, 9. Holotype ♂ (so labelled by author) (in 2% formaldehyde solution). [India], N. Bengal, Mirik, 4000 ft, 21.ix.[19]46 [*M. T. Gillies*], *Baetis tigroides* sp. n. [M. T. Gillies det.].

**tinctus** Kimmins (*Tricorythus*), 1956 : 82-84, text-figs 19-21. Holotype ♂ (in 2% formaldehyde solution). Uganda, Owen Falls Dam, at light, 24.iv.1954, (*P. S. Corbet*) / *Tricorythus tinctus* Kim., ♂ Type, D. E. Kimmins det. 1954.

**torrentis** Gillies (*Masharikella*), in Peters, Gillies and Edmunds, 1964 : 120, text-figs 2-3, 10, 13-22. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, Amani, 2000-3000 ft,

- East Usambara Mountains, 20.iv.1958 (*M. T. Gillies*), / *Masharikella torrentis* Det. 1964, W. L. Peters / Holotype 1964.
- torrentis** Kimmins (*Ecdyonurus*), 1942 : 492-497, figs 2T, 3T, 4-5. Holotype ♂. N. Lancs. Bleham Fishpond Beck, 20.v.1941 (*D. E. Kimmins*) / *Ecdyonurus torrentis* Kim., [♂] Type, det. D. E. Kimmins 16/2/[19]41.
- torrentium** Eaton (*Epeorus*). Kimmins, 1960 : 282, text-fig. 15 [♂ Lectotype].
- torridus** Walker (*Baetis*). Kimmins, 1960 : 284 [♀ Holotype].
- trailiae** Eaton (*Spaniophlebia*). Kimmins, 1960 : 277 [♂ Lectotype].
- trimeniana** McLachlan (*Oligoneuria*). Kimmins, 1960 : 275, text-fig. 7. [♀ Holotype].
- tristis** Harker (*Jappa*), 1954 : 257-259, text-figs 62, 63, 66. Holotype ♂. Tas[mania], Cradle Mt., 21.i.[19]17 (*R. J. Tillyard*) / Abdomen in slide cabinet / *Jappa tristis* [J.E.H.] / Genitalia slide XI.  
The holotype now lacks all legs and left fore wing.
- tropicalis** Gillies (*Euthraulius*), 1957 : 44-45, text-figs 2-5, 8-9. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, [Tanga Province, c. 12000 ft], Mombo, x.[19]54 [*M. T. Gillies*], *Euthraulius tropicalis*, ♂ holotype [M. T. Gillies det.].
- tuhla** Harker (*Atalophlebia*), 1954 : 247, text-figs 1, 2, 3, 4. Holotype ♂. N[ew] S[outh] W[ales], Kiandra, 15.i.[19]30 (*R. J. Tillyard*) / *Atalophlebia tuhla* [J.E.H.] / Abdomen in slide cabinet / Genitalia, slide III.
- typicus** Eaton (*Siphurus*). Kimmins, 1960 : 274 [♂ Lectotype].
- ugandanus** Kimmins (*Afronurus*), 1956 : 71-73, text-fig. 1. Holotype ♂ (in 2% formaldehyde solution, apex of abdomen as microscope preparation). Uganda, Entebbe, 8.iii.1954 (*R. Hartland-Rowe*) / *Afronurus ugandanus* Kim., ♂ Type, D. E. Kimmins det. 195-.
- umbratilis** Eaton (*Habrophlebia*). Kimmins, 1960 : 300, text-fig. 47 [♂ Lectotype].
- usambarae** Gillies (*Euthraulius*), 1957 : 46-48, text-figs 6-7, 10-11. Holotype ♂ (in 2% formaldehyde solution). Tanganyika, E. Usambara, Mpandeni, 20.vi.[19]55 [*M. T. Gillies*], *Euthraulius usambarae*, ♂ holotype [M. T. Gillies det.].
- vaciva** Eaton (*Leptophlebia*), Eaton. Spieth. 1941 : 96 [♂ Lectotype].
- valens** Eaton (*Thraulius*). Kimmins, 1934 : 344 [designation of ♂ Lectotype (as 'type)].
- venusta** Eaton (*Hexagenia*). Spieth, 1940 : 88 [♂ Lectotype].
- venustus** Eaton (*Baetis*). Kimmins, 1960 : 289 [♂ Lectotype].
- versicolor** Eaton (*Atalophlebia*). Kimmins, 1960 : 296, text-fig. 39 [♂ Lectotype].
- versicolor** Eaton (*Thraulius*). Kimmins, 1960 : 303 [♂ Lectotype].
- vicaria** Walker (*Baetis*). Kimmins, 1960 : 284 [♂ Holotype].
- viridescens** Walker (*Palingenia*). Kimmins, 1960 : 311 [♀ Holotype].
- viridis** Kimmins (*Cloeon*), 1947 : 98. Holotype ♀ (in 2% formaldehyde solution). [Bengal], Calcutta distr., x.1945 (*D. E. Kimmins*), *Cloeon viridis* Kim., Type ♀.
- vitrea** Walker (*Palingenia*). Kimmins, 1960 : 283 [♀ Holotype, subimago].
- volitans** Eaton (*Heptagenia*). Kimmins, 1960 : 282 [♂ Lectotype].
- wakefieldi** McLachlan (*Oniscigaster*). Kimmins, 1960 : 272, text-fig. 2 [♂ Lectotype].
- walkeri** Eaton (*Ephemerella*). Kimmins, 1960 : 304 [Type as for *Ephemerella fuscata*].
- zelleri** Eaton (*Ecdyurus*). Kimmins, 1942a : 125 [♂ Lectotype].
- zettana** Kimmins (*Ephemerella*), 1937 : 431-433, pl. 11, fig. 1; text-fig. 1. Holotype ♂ (in 2% formaldehyde solution). Montenegro, R. Zetta, 1933 (*A. H. Batten Pooll*) / *Ephemerella zettana* Kimmins, Type ♂, det. D. E. Kimmins.

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